

Comparisons of Job Characteristics

Focus Occupation: [Welders, Cutters, Solderers, and Brazers \(51-4121\)](#)

Associated Occupation: [Layout Workers, Metal and Plastic \(51-4192\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	15.1	9.5	<<	Extensive education and/or training may be required
Mathematics	9.2	14.7	6.4	<<	Extensive education and/or training may be required
Design	5.2	12.8	6.0	<<	Extensive education and/or training may be required
Building and Construction	4.0	12.6	4.9	<<	Extensive education and/or training may be required
Production and Processing	6.0	10.2	6.4	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Quality Control Analysis	5.9	7.5	7.4	0	Current skill level may be sufficient
Equipment Selection	3.3	6.0	5.4	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	12.5	11.2	<	Some improvement in abilities may be required
Visualization	7.5	11.5	8.6	<<	Extensive improvement in abilities may be required
Arm-Hand Steadiness	6.8	10.4	11.4	0	Current ability level may be sufficient
Information Ordering	9.9	10.2	8.2	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	10.1	8.3	<	Some improvement in abilities may be required
Oral Comprehension	12.5	9.7	9.6	0	Current ability level may be sufficient
Oral Expression	12.4	9.5	9.7	0	Current ability level may be sufficient
Manual Dexterity	6.5	9.4	10.3	0	Current ability level may be sufficient
Auditory Attention	5.9	8.2	6.3	<	Some improvement in abilities may be required
Extent Flexibility	4.8	7.9	5.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Work Activities	Exclusivity of Activity
Compute production, construction, or installation specifications	58
Examine products or work to verify conformance to specifications	15
Fabricate, assemble, or disassemble manufactured products by hand	11
Lay out machining, welding or precision assembly projects	63
Measure, weigh, or count products or materials	17
Operate hoist, winch, or hydraulic boom	34
Plan or organize work	51
Read blueprints	10
Read production layouts	66
Read technical drawings	7
Recognize characteristics of metals	62
Understand technical operating, service or repair manuals	6
Use hand or power tools	2
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Welders, Cutters, Solderers, and Brazers (51-4121)

Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.	
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Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.